

# MONTHLY NOTICES

OF THE

## ROYAL ASTRONOMICAL SOCIETY.

---

VOL. XLVI.      SUPPLEMENTARY NUMBER.      No. 9

---

*Observations of the Variable Star R Carinæ from Sept. 1883, to April 1886. By John Tebbutt.*

In the *Monthly Notices*, vol. xlv. p. 14, was published a series of concluded magnitudes of this variable, from comparisons extending from May 11, 1880, to September 3, 1883. I have now much pleasure in presenting to the Society another series, based on comparisons extending from the latter date to the close of April 1886. While the variable was visible to the unassisted eye, it was compared with neighbouring stars of the *Uranometria Argentina*, and while telescopic, with the small stars, whose positions and magnitudes are recorded on p. 17 of the *Monthly Notices* already referred to. The variable could not be seen with the unassisted eye on April 22, 1884, but was pretty distinct on the 15th of the following month. On March 12, 13, December 26, 1885, it was visible without a telescope, on the last-mentioned date distinctly so, but on April 3, 1886, it was remarked as barely visible without telescopic aid, although the sky was beautifully clear and the Moon absent. The  $3\frac{1}{4}$ -inch Refractor was employed in almost all the comparisons when the star was telescopic. I have not yet thoroughly discussed the Cordoba and Windsor observations; but it appears, from a cursory examination, that a period of about 312 days will approximately represent the maxima of the star. In conclusion, I shall be obliged by the following corrections of errata in my former paper:—

1882, April 9, for 9.2 read 9.3

"    "    15, " 9.3 " 9.2

0 0

Concluded Magnitudes of R Carinæ.

Date.	Mag.	Date.	Mag.	Date.	Mag.
1883, Sept. 30	8.5	1885, Jan. 4	9.1	1885, Sept. 6	9.2
„ Nov. 12	9.1	„ „ 12	9.0	„ Nov. 11	8.1
„ „ 19	9.2	„ „ 16	8.9	„ Dec. 16	6.8
„ Dec. 7	9.2	„ „ 30	8.6	„ „ 26	6.0
„ „ 18	9.1	„ Feb. 4	8.5	1886, Jan. 8	4.9
„ „ 25	9.1	„ „ 8	8.5	„ „ 12	5.1
1884, Jan. 3	9.1	„ „ 26	7.0	„ „ 26	4.6
„ „ 22	9.0	„ Mar. 15	6.4	„ „ 30	4.6
„ Mar. 18	8.5	„ Apr. 2	5.8	„ Feb. 4	4.7
„ „ 31	8.2	„ „ 11	5.7	„ „ 9	4.9
„ Apr. 14	7.2	„ „ 22	6.0	„ „ 11	5.1
„ „ 22	6.8	„ „ 23	6.0	„ „ 21	5.3
„ May 15	6.1	„ May 1	6.3	„ „ 25	5.3
„ „ 30	5.7	„ „ 3	6.4	„ Mar. 4	5.3
„ June 17	6.4	„ „ 16	6.4	„ „ 7	5.3
„ „ 26	6.5	„ June 3	7.3	„ „ 8	5.3
„ July 7	6.9	„ July 1	8.4	„ „ 14	5.6
„ „ 22	7.7	„ „ 25	8.7	„ „ 27	5.9
„ Dec. 12	9.2	„ Aug. 18	9.1	„ Apr. 1	6.3
„ „ 18	9.3	„ „ 31	9.2	„ „ 21	7.3

Windsor, N. S. Wales :

1886, May 1.

Observation of Calliope, made at the Observatory, Düsseldorf.  
By R. Luther.

(Extract from a letter to Mr. Stone.)

Mr. Hind's planet (22) Calliope has not been observed since 1874 (three times at Paris). I have made the following new observations of it :—

Mean time, Düsseldorf. (22) Calliope (9.6 mag.)  
1886, Sept. 18, <sup>h m s</sup> 10 52 0 R.A. <sup>h m s</sup> 23 58 16.49. Decl. — 22° 40' 41".8 } 6 comp.  
parallactical correction — 0.07 + 4.6 } with Arg. Z. 269, N. 42

This observation may perhaps be useful to English observers.

Düsseldorf : 1886, September 21.